

COC# 123

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
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CHAIN OF CUSTODY REPORT

Work Order #: M106088

CLIENT: BRISTOL		INVOICE TO: BRISTOL												TURNAROUND REQUEST in Business Days* Organic & Inorganic Analyses <div style="display: flex; justify-content: space-around;"> <div>10 7 5 4 3 2 1 <1</div> <div>STD.</div> <div>Petroleum Hydrocarbon Analyses</div> </div> <div style="display: flex; justify-content: space-around;"> <div>5 4 3 2 1 <1</div> <div>STD.</div> <div>OTHER Please Specify</div> </div> <p><small>*Turnaround Requests less than standard may incur Rush Charges.</small></p>				
REPORT TO: ANNE KRANAWETTER		P.O. NUMBER: 21090																
ADDRESS: AMCHITKA ISLAND, AK																		
PHONE: 907-770-0974 FAX: 770-0975																		
PROJECT NAME: AMCHITKA		REQUESTED ANALYSES																
PROJECT NUMBER: 21090																		
SAMPLED BY: ARK/cem																		
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	DRO	BTEX	W/Nap											MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1. 01AMC2306SL	6/28/01 1720	✓	✓												5	2		
2. 01AMC2307SL	6/28/01 1722	✓	✓												5	2		
3. 01AMC2308SL	6/28/01 1724		✓												5	2	Trip Blank	
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		
11.																		
12.																		
13.																		
14.																		
15.																		
RELINQUISHED BY: <i>Charlie Marshall</i>	DATE: 6.28.01	RECEIVED BY: <i>Craig Bradle</i>												DATE: 6/28/01				
PRINT NAME: Charlie Marshall	TIME: 17.42	PRINT NAME: Craig Bradle												TIME: 1742				
RELINQUISHED BY:	DATE:	RECEIVED BY:												DATE:				
PRINT NAME:	TIME:	PRINT NAME:												TIME:				
FIRM: BRISTOL																		
FIRM: NCA																		
ADDITIONAL REMARKS:																		
COC REV 3/99																TEMP: 6.7c	PAGE 1 OF 1	



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541.383.9310 fax 541.382.7588

6 December, 2001

Anne Kranawetter
Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 06/28/01 17:42. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson
Environmental Group Leader

Work Orders included in this report:

M106088



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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/30/01 09:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMC2306SL	M106088-01	Soil	06/28/01 17:20	06/28/01 17:42
01AMC2307SL	M106088-02	Soil	06/28/01 17:22	06/28/01 17:42
01AMC2308SL	M106088-03	Soil	06/28/01 17:24	06/28/01 17:42

C.O.C.# 123

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network

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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/30/01 09:47

Diesel Hydrocarbons (C10-C25) per AK102
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC2306SL (M106088-01) Soil						Sampled: 06/28/01 Received: 06/28/01			
Diesel Range Organics	3540	150	mg/kg dry	1	AK 102	06/29/01	06/29/01	0106104	
<i>Surr: 1-Chlorooctadecane</i>	102 %	50-150							
<i>Surr: Triacontane</i>	137 %	50-150							
01AMC2307SL (M106088-02) Soil						Sampled: 06/28/01 Received: 06/28/01			
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/29/01	06/29/01	0106104	
<i>Surr: 1-Chlorooctadecane</i>	89.5 %	50-150							
<i>Surr: Triacontane</i>	140 %	50-150							

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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/30/01 09:47

BTEX, MTBE and Naphthalene per EPA Method 8021B
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC2306SL (M106088-01) Soil					Sampled: 06/28/01 Received: 06/28/01				
Benzene	ND	0.0789	mg/kg dry	50	1B BTEX/MTI	06/29/01	06/29/01	0106102	
Toluene	ND	0.316	"	"	"	"	"	"	
Ethylbenzene	ND	0.316	"	"	"	"	"	"	
Xylenes (total)	ND	0.631	"	"	"	"	"	"	
Naphthalene	ND	3.16	"	"	"	"	"	"	
<i>Surr: 4-BFB</i>	<i>90.8 %</i>	<i>50-150</i>							
01AMC2307SL (M106088-02) Soil					Sampled: 06/28/01 Received: 06/28/01				
Benzene	ND	0.0821	mg/kg dry	50	1B BTEX/MTI	06/29/01	06/29/01	0106102	
Toluene	ND	0.329	"	"	"	"	"	"	
Ethylbenzene	ND	0.329	"	"	"	"	"	"	
Xylenes (total)	ND	0.657	"	"	"	"	"	"	
Naphthalene	ND	3.29	"	"	"	"	"	"	
<i>Surr: 4-BFB</i>	<i>102 %</i>	<i>50-150</i>							
01AMC2308SL (M106088-03) Soil					Sampled: 06/28/01 Received: 06/28/01				
Benzene	ND	0.137	mg/kg dry	50	1B BTEX/MTI	06/29/01	06/29/01	0106102	
Toluene	ND	0.548	"	"	"	"	"	"	
Ethylbenzene	ND	0.548	"	"	"	"	"	"	
Xylenes (total)	ND	1.10	"	"	"	"	"	"	
Naphthalene	ND	5.48	"	"	"	"	"	"	
<i>Surr: 4-BFB</i>	<i>98.5 %</i>	<i>50-150</i>							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/30/01 09:47

Physical Parameters per APHA/ASTM/EPA Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC2306SL (M106088-01) Soil					Sampled: 06/28/01 Received: 06/28/01				
% Solids	80.8	0.0100 %	by Weight	1	Gravimetric	06/29/01	06/30/01	0106103	
01AMC2307SL (M106088-02) Soil					Sampled: 06/28/01 Received: 06/28/01				
% Solids	91.2	0.0100 %	by Weight	1	Gravimetric	06/29/01	06/30/01	0106103	
01AMC2308SL (M106088-03) Soil					Sampled: 06/28/01 Received: 06/28/01				
% Solids	100	0.0100 %	by Weight	1	Gravimetric	06/29/01	06/30/01	0106103	

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Project: Amchitka
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Reported:
06/30/01 09:47

Diesel Hydrocarbons (C10-C25) per AK102 - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0106104 - 3545 ASE

Blank (0106104-BLK1)

Prepared & Analyzed: 06/29/01

Diesel Range Organics	ND	150	mg/kg wet						
Surr: 1-Chlorooctadecane	24.3		"	23.4		104	50-150		
Surr: Triacontane	17.7		"	23.4		75.6	50-150		

LCS (0106104-BS1)

Prepared & Analyzed: 06/29/01

Diesel Range Organics	1410	150	mg/kg wet	1250		113	75-125		
Surr: 1-Chlorooctadecane	23.8		"	23.4		102	50-150		
Surr: Triacontane	16.9		"	23.4		72.2	50-150		

LCS Dup (0106104-BSD1)

Prepared & Analyzed: 06/29/01

Diesel Range Organics	1450	150	mg/kg wet	1250		116	75-125	2.80	20
Surr: 1-Chlorooctadecane	29.2		"	23.4		125	50-150		
Surr: Triacontane	16.7		"	23.4		71.4	50-150		

Matrix Spike (0106104-MS1)

Source: M106088-01

Prepared & Analyzed: 06/29/01

Diesel Range Organics	4430	150	mg/kg dry	1550	3540	57.4	60-140		Q-03
Surr: 1-Chlorooctadecane	36.3		"	29.0		125	50-150		
Surr: Triacontane	39.4		"	29.0		136	50-150		

North Creek Analytical - Mobile Lab

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Reported:
06/30/01 09:47

BTEX, MTBE and Naphthalene per EPA Method 8021B - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0106102 - MeOH Extraction

Blank (0106102-BLK1)

Prepared & Analyzed: 06/29/01

Benzene	ND	0.0250	mg/kg wet
Toluene	ND	0.100	"
Ethylbenzene	ND	0.100	"
Xylenes (total)	ND	0.200	"
Naphthalene	ND	1.00	"

Surr: 4-BFB 2.30 " 2.50 92.0 50-150

LCS (0106102-BS1)

Prepared & Analyzed: 06/29/01

Benzene	2.13	0.0250	mg/kg wet	2.50	85.2	69-138
Toluene	2.26	0.100	"	2.50	90.4	53-151
Ethylbenzene	2.59	0.100	"	2.50	104	61-141
Xylenes (total)	7.28	0.200	"	7.50	97.1	62-141
Naphthalene	3.20	1.00	"	2.50	128	65-135

Surr: 4-BFB 2.65 " 2.50 106 50-150

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Project: Amchitka
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Reported:
06/30/01 09:47

Notes and Definitions

Q-03 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte already present in the sample.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

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Environmental Laboratory Network

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Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M106088 FINAL 06 30 01 0947.mdb
			Default Report (not modified)
0106104-MS1	AK102 (DRO)	Diesel Range Organics	Q-03
0106104-MS1	AK102 (DRO)	Diesel Range Organics	Exceeds lower control limit